12-18

Previous references.

LB 224-11. 1-10. 1914-15.
LB 154-09. 3-4.
LB 133-12 12 (Local Boards
Later references.
LB 117-1911. 11-16. 18-19.
12-15 SH 66-77

File No. 133-12
Serial Nos. 7-24

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 7-24

Part B. for July 1914

SUBJECT.

The question of Continuing the Well-borne Establishment.

Sl 7. from the State Zoologist no 2946 dt 16/6/13.
Recommends the further retention of the Well borne ~~Quarters~~ establishment for a further period of one year and suggests that the staff be placed under the charge of the Director of Industries & Commerce
Sl 8. from do no 186 dt 15/7/13. Requests early orders on his letter no 2946 dt 16/6/13 about the

further ~~retention~~ Continuance of the services of the Borne Operator and his staff. and submits in original for favourable consideration, a letter addressed to him by the Operating Operator on the subject of his pay & prospect under ~~me~~ ~~to~~ Govt.

Sl 9 To the State Geologist. Special Advocate Indus Commerce etc no 2114-27 dt 20/8/13 - Sanctn the retention of the staff till the close of Dec 13 and declines to sanction any increase of pay to the Operator

Sl 10. To the State Geologist no 3531 dt 11/9/13 Requests him to furnish information on the various points referred to by the Chief Engineer in par 4 Supra

Sl 11 To do. no 4795 dt 17/10/13. Requests him to expedite the submission of the information called for in Sl 10.

Sl 12 From do. no 8958 dt 21/10/13. Refft Sl 10 Submits a report by Mr. Rangaswamiyer Borne Operator on the operations conducted by him since January 1910 with his opinion thereon

See Sl 14 below Sl 13.

Sl 13 To the State Geologist, Chief Engineer etc no 6040-61 dt 12/12/13 Directs that the temporary staff employed on Borne Operations in the State be retained for a further period of 6 months ie till the end of June 1914.

Sl 14. From the State Geologist no 1413 dt 13/11/13 With reference to Sl 9 ie the Govt order sanctioning the retention of the Borne Operator this Staff until the close of Dec 13 I solicit

G.R.S. 11] 1913.

GENERAL AND REVENUE SECRETARIAT.

(21.)

NOTES.

File No. 133-12

FILE HEADING.

Further returns of the well-boring Establishment (now working under the State Geologist.)

From

The State Geologist

No. 2916 Dated 16-6-13 Received 17-6-13

Diary No. 8011	Enclos.	Spare Copies.	Serial No. 7

BRIEF ABSTRACT OF LETTER.

NOTES AND ORDERS.

NOTES—First Sheet.

GPB—35,000—15-6-12

General and Revenue Secretariat. | L.S. File No. 133 of 1912–3

Serial No.

(O 8011)

7 from the State Geologist. no. 2946 & 16.6.13. Recommends the further retention of the well-boring Establishment for a further period of one year and suggests that the staff be placed under the charge of the director of Industries & Commerce.

1) L.S. files (Collections) (224–11) sls 1–10 & (133–12) 1–2 relating to the Entertainment of the well-boring Establishment have been subd. to the U.S. with the Secn with this. This L.S. min. 125 of 12-13 as her requisition. ~~Papers enclosed in Confirmation.~~

Kp. 42 28/6/13

2) Please get the file from the Supdt, D.O.

LG 20/6/13

3) To Supdt Secretariat office for kindly sending back the files

30/6/13

4) L.B file 224-11 sls 1-10 is herewith put up and the file returned.

3.7.13

IC 3.7.13 4

5) The further retention of the staff in question sanctioned for the last time in G.O. for a further period of

NOTE—Contn. sheet.

GPB—55,000—17-6-12.

R. S. 12]

General and Revenue Secretariat. | G.S. File No. 133 of 1912—3

Serial No.

Jo. no. C.176-97
Ls. 224-11-10
7 28.10.12

6 months sanctioned in Jo. no. 5053-74 Ls. 133-12- 7 28.10.12 expired by the end of June 1913 but it is now stated that the staff is now engaged at Tiptur since June last- where their operations will not have been yet- Completed - Though the staff has been continuously employed since Jan 1st 1910 the State Geologist under whom they are now working says that- there has not been sufficient time yet- to secure definite results one way or the other

6) The points now requiring orders are: —

(1) Whether the staff is to be Continued further & if so for what length of time -

(2) If it may be hereafter placed, as suggested by the State Geologist, under the charge of the Director of Commerce & Industries, if further Continued -

(3) The question of increase of pay to the well-boring operator, Mr. Ranganswami Iyengar.

Subd for orders.

K.C.U. 5/7/13

7) As Dr Sweetman proposes that the well boring operator

NOTE—Contn. sheet.

GPP—65,000—17-6-12.

8041

5

G. R. S. 12]

General and Revenue Secretariat. | L-13 File No. 133 of 1912-13

Serial No.

absolutely essential that there should be a workshop where the well-boring tools could be repaired without delay. In Madras such a workshop was attached to my Office, and there is a subsidiary one in the Madura Technical Institute. Boring through hard rock, the tools wear out extremely rapidly, amd it is necessary to have a large number of duplicates, if the work is not to be unduly delayed.

(11) In Madras, well-boring operations are carried on in certain districts, and the boring maistries are placed under the orders of the Supervisors of the Department. The scale of pay for boring maistries ranges from Rs. 17-8 to Rs. 30 a month; whilst here, the single boring maistry at present employed gets Rs. 80/- a month, and with that he is apparently not satisfied, notwithstanding the fact that he has done very little work.

(12) Since writing my letter referred to above, I have acquired more extended knowledge of the conditions prevailing in Mysore, and I am of opinion that at the present moment any elaborate extension of boring work should be postponed till further progress has been made in the development of the use of mechanical appliances in this State.

(13) In the Madras Presidency, the Sanitary Engineer Department maintains its own boring tools, and does whatever work is necessary in connection with finding supplies of water for drinking purposes. The boring work which was under my charge was entirely for the purpose of finding water supplies for private individuals, and was chiefly used for purposes of irrigation. I do not think that any advantage will be gained by transferring Mr. Rengasamy Iyengar to work under me in place of under Dr. Smeeth. I have no facilities for carrying on the work which he does not possess, and I could not recommend Government to start boring work under the Department of Industries and Commerce, unless it was prepared to establish a workshop and to supply funds to get a considerable number of sets of tools at work.

(14) My enquiries lead me to the conclusion that at the present moment there is urgent need for improved supplies of drinking water in various parts of the State; and I would venture to suggest that possibly the most convenient arrangement to adopt will be to place such boring work under the Executive Engineer, Water Supply Division, who already possesses well-equipped workshops in which all repair work could easily be undertaken. If this is done, I shall be glad at any time to place at his disposal the results of my experience in Madras.

S Rama Chatterton

Director of Industries & Commerce.

V.S.N./-

14.7.13

NOTE—Contn. sheet.

G I L—65,000—17-6-12.

6011

G. R. S. 12]

General and Revenue Secretariat. | Ls File No. 133 of 1912-3

Serial No.

15) Subd for orders with the unofficial opinion of the Director of Industries & Commerce.
Dy Sec 14/7/13

16) Submitted for orders. The stage appears to have been reached when the boring establishment may safely be disbanded. If so ordered, the Chief Engineer will be consulted unofficially in the matter.
Dy Sec 15/7.

17) It will take some time before the questions raised about control & organization can be satisfactorily settled.

18) The temporary establishment is working and unless orders are passed sanctioning its continuance for some time longer, it cannot draw pay in Aug.

19) Pending further orders, the period of the employment of the temporary establishment may be extended until the end of this calendar year.
Dy Secretaries
17/7.

20) Before any communication is sent to the Government of India regarding the proposed scheme for the continuance of the temporary establishment, the Chief Engineer may be consulted unofficially as to the desirability of a scheme of boring being established permanently.

NOTE—Contn. sheet.

G I E—65,000—17-C-12.

21) Submitted after attending to the above instructions.
22.7.13

R. S. 12]

General and Revenue Secretariat.

Ld. File No. 133 of 1912–13

Serial No.

8 22) From the State geologist - no. 186 of 15.7.13 Requests early orders on his letter no. 2946 of 16.6.1913 about the further continuation of the services of the Boring Operator & his staff and submits in original for favourable Consideration ~~of~~ a letter addressed to him by the Boring Operator on the subject of his buy & prospects under the Government.

23) The letter referred to in the above was sub'd to the 2nd Councillor on 17.7.1913 with this office Desp no. 8011. In it the State Geologist had suggested that the staff might hereafter be put ~~at~~ under the charge of the Director of Industries & Commerce but in the present Communication it is stated by the State Geologist that he will himself look after the work if necessary, for another year. Sub'd

K.L.42
19/7/13

24) As suggested by the Dep Sec'y on the other file now before the 2nd Councillor, this establishment may be ordered to be continued for another 6 months i.e. till the end of the Calendar Year 1913, on the same Conds, and under the same directing authority as heretofore, pending final orders

NOTE—Contn. sheet.

GPB—65,000—17-6-12.

G. R. S. 12]

General and Revenue Secretariat.

File No. 933 of 1912

Serial No.

on the question of its permanent retention and change of Disbursing Authority

2nd Cr.)

Asst 19/7.

25.

2/7

26. Please pass up any accounts

22/7/13

22/7 Draft 24/7 Asst 24/7.

27. Draft Subd as directed.

22/7/13 Dy Secy)

Asst 23/7.

Secy)

28. What were his terms on which he was borne Expert when first employed — for what period & on what pay?

Draft & Clear Asst 24/7 24/7.

30/7/13

29/7 Draft 30/7 Asst 30/7.

29. With reference to the Secretary's query it is submitted (1) that the boring Expert was first temporarily employed under the Control of the Revenue Commissioner with effect from Jan 1910 (2) for a period of 6 months (3) on a salary of Rs. 80 p.m. (4) with rate of travelling allowances permissible to officials in the Revenue Debit drawing

NOTE—Contn. sheet.

GPB—65,000—17-6-12.

G. R. S. 12]

General and Revenue Secretariat. | Ls File No. 133 of 1912-3

Serial No.

his pay. He has been given to understand that his appointment was purely temporary & got declined to hold out any hope of permanent employment but that his case would be received consideration if his work proved beneficial at the end of his sheeped period.

Q
R

vide G.O. no 10551-62 of 27.5.10 & G.O. 154-09-4 and paras 3 & 4 of Serial 3 in that Collection.

K.P.W.2 30/7/13 (Passed)

Asst 31/7.

Secy) 30 With reference to para 28.

Dy Secy 31/7 Asst 31/7

31.2nd Council & Dewan

23 1/8 Asst 1/8.

32. Approved

4375 4-8-13

1/8 Secy Dy Secy 2/8 Asst 2/8

33. I should like to have a note explaining precisely -

(1) the expenditure incurred on the work;

(2) the practical results achieved, so far; and

(3) the details of establishment, &c., maintained.

I should also like to know how long the work

NOTE—Contn. sheet.

G I I—65,000—17-C-12.

G. R. S. 12]

General and Revenue Secretariat. | C/3 File No. 133 of 1912-3

Serial No.

has been in progress.

5-8-13 R6

R W. WD 5/8 dated 5/8. Any 6/8.

Do we require any report.

5.9. 1913

34) Information available in the office goes to show that :—

(i) the expenditure incurred till now on this establishment is Rs 10,362.

(ii) the results achieved comprise the successful boring and completion of about 15 wells, in the Kolar District, leaving out partially successful attempts. These results are not considered either by the State Geologist or the Director of Industries & Commerce to be satisfactory. Mr Chatterton has expressed a more gloomy view in paras 8 to 14 Supra than in C. B. File 224 of 1911.

N

(iii) the establishment consisted from Jan 1910 to 28-10-1912, of only an Engr on Rs 80/-; a mastry on Rs 15, and a Cooly on Rs 7/- were sanctioned in G. O No C. 176-97-L. B. 224-11-10 dated 28-10-1912; that the pay

2

NOTE—Contn. sheet.

GIP—65,000—17-6-12.

General and Revenue Secretariat. | Ab. File No. 133 of 1912-3

Serial No.

after maistry was subsequently raised to Rs 25/- on 16-1-1913, and
(iv) the experiments have been in progress for the last 3½ years.

Asst 11/8.

35) Dy Secy)
Dewan) With reference to para 33.

Dy Secy (Law) 11/8
Asst 11/8

L 843
11-8-13

36) Draft approved by Dewan.
18-8-13.

WB 18/8 Asst 18/8

37) Issue & resubmit for further action under para 20 Supra.

Asst 18/8.

38)

9. State Geologist, Special Adviser, Industries, Rev Comr, Chief Engr, Comptroller, Presidt of B & D & Dy Comrs of D's & Secy Economic Conference Rs 2114-2-7 Dy 20-8-13 Sanctions the retention of the staff till the close of Dec 1913 & declines to sanction an increase of pay to the operator.

39) Resubmitted as directed in para 20 Supra. May the Chief Engineer be now consulted unofficially as to the desirability or otherwise of making the Est permanent.

NOTE—Contn. sheet.

26-8-13

GIP—65,000—17-6-12.

27

534

G. R. S. 12]

General and Revenue Secretariat. | G.B. File No. 133 of 1912-3

Serial No.	
No. 20-42	40) Forwarded unofficially to the Chief Engineer in Mysore for favour of opinion, as to the desirability of making the well boring establishment, permanent. By order. B. Jayaramachetty for Secretary to Govt. G & R. Depts.
29.8.13	29/8/13

In offl No. 133/PWD. dt 30th August 1913.

41) To enable the Chief Engineer to form an opinion on the subject referred to, it is necessary that a report should be called for on the points noted below:-

IV
574 PW

(1) How many bores, with depths, &c., have been put in from January 1910?

(2) How many have been successful?

(3) Whether any has been widened and built up by the ryots?

(4) What advantages have accrued to Government so far from this experiment?

H. Krishna Rao
For Offg: Chief Engineer of Mysore.

Bangalore,
2nd September 1913.

42) Subd - May a report be called for from

NOTE—Contn. sheet.

G I E—65,000—17-C-12.

5924

R. S. 12]

General and Revenue Secretariat. | Ls. File No. 133 of 1912-3.

Serial No.	
	the State Geologist under whom the Boring Establishment is now placed on the boring prints referred to by the Chief Engineer as information on most of the prints did not available in this Office? Kpl. 2 Sub? with draft to the State Geologist 5/9/13 (JP) 43) Dy Secy). Approved 9/9.
Verify this & bring up in person. Bore (-masonable 6/9/13 6/9/13	44) Approved. Early reply should be secured by means of issuing brief reminders. Dinner 10/9 Approved 45) Yours Approved 10/9.
10	46) To the State Geologist. No 3531 of 4.9.13 Requests him to furnish information on the boring prints referred to by the Chief Engineer in para 41 supra.

NOTE—Contn. sheet.

GPB—65,000—17-6-12.

File No. Ls-(133-12)

D-1970

4)
(1) Term of employment is extended upto end of Dec 1913.

(2) My appointment is still temporary –

(3) State Geologist recommended increase of pay.

(4) My memorial is before the Govt. It may be considered favourably.

5

Note. Further information about Coorg has been called for.

B iv
2/1/13 Hm 20/1/13. 1/2/13

4) with reference to para 4 of the supra Sub Jt with Cr. Draft reminder to the State Geologist.

Ltr. 33
4.10.13
11

Hm 14/10

(3)
Details
Note Government the case after
Statistics are also received —

IV 1919

Case be submitted after
[illegible] with
[illegible]
is received
20/1/13

(15

2436

G. R. S. 12]

General and Revenue Secretariat. | L.A File No. 133 of 1912-3

Serial No.	
11	(51) To the State Geologist. no 4795 dt 17.10.13 Requests him to expedite the submission of the information called for in sl. 10 above.
12	(52) From the same Wire. no 895 dt 21.10.13 with refce. to sl. 10 submits a report by Mr. Ramaswami Iyengar, Boring Operator on the operations conducted by him since January 1910 with his opinion thereon: (52) As the report is received with reference to para 41 supra the letter with its enclosures may be forwarded u.o. to the Chief Engineer. Ag. 33 27/10/13 (11) (53) Forwarded unofficially to the Chief Engineer in Mysore, for favour of opinion as requested in para 40 supra. The report and connected papers received from the State Geologist on the points raised in para 41 supra are on the file (Serial 12 + its enclosures). By order. Asst Secy to Govt. G & R. Depts 31/10/13

no no 895 dt 21.10.13

Brig 4/11/13

BH)

NOTE—Contn. sheet.

GPB—60,000—25-9-13.

G. R. S. 12]

General and Revenue Secretariat. | L-B File No. 133 of 1912-13

Serial No.

In offl No 159 dated 3rd November 1913
P. W. D.

IV
29/11/13

(SL) I agree with the State Geologist in the following observations of his:-

(1) The work that is now being carried on is more or less of an experimental character.

(2) The experiments themselves as conducted ~~so~~ so far with hand-boring tools do not give convincing results and the increased supply in some of the wells noted as successful is not of any magnitude and it is doubtful whether the improvement will be maintained in the hot months.

(3) In these circumstances, ryots and Municipalities hesitate to spend money on schemes about which we cannot give them any reasonable assurance.

(4) To infuse confidence, Government or some of the Municipalities must provide funds for carrying out tests by sinking deep wells and demonstrating the useful results. For this purpose, power drills and competent staff are necessary. Deep wells and not mere deep bore-holes in the form of toy exhibitions are what is urgently needed.

(5) The present practice results in large expenditure on establishments and purchase of tubes with no corresponding result to the people.

NOTE—Contn. sheet.

GPB—60,000—25-9-13.

Public Works Secretariat.

L.-B File No. 183 of 1913-13

Serial No.

people. Any further outlay in this direction will be simply to encourage spending money more or less blindly.

Only 13 out of 60 bores seem to have been widened and deepened so far.

I am therefore of opinion that the establishment may be dispensed with from 1st January 1914.

H. Thimmaiah
Offg. Chief Engineer of Mysore.

Bangalore,
27th November 1913.

29/11/13

GPB—1,000—12-2-14

G. R. S. 12]

2436

General and Revenue Secretariat. L. D. File No. 133 of 1913-14

Serial No.

55) Submitted with the unofficial reply from the Chief Engineer. The latter's opinion was called for as per orders of the 2nd Committee on page 6, para 20 of the notes Supra.

56) The further retention of the staff has been sanctioned in G.O. No 2114-27 of L.B:133-12-9 20-8-13, only till the Close of Dec^r. 1913. hence orders have to be sought in case it is to be dispensed with as recommended by the Chief Engineer.

K.P. 33 1/12/13 (11)

Dy Sec^y)

Hm 2/12.

57) Please put up a draft order sanctioning the continuance of the staff up to the end of June 1914:- (today).

K.S. 3/12/13

Dmee 3/12

Hm

58) Draft put up as decided.

K.P. 33 2/12/13 (11)

Dy Sec^y)

Hm 3/12

59) A tidy draft as revised maybe put up today

Dmee 4/12

K.S. 4/12/13

Hm

60) Revised draft subd.

K.P. 33 4/12/13 (11)

61) Dy Sec^y).

Hm 4/12.

62) The well boring establishment was sanctioned to be retained until the end of this month pending the decision of the general question whether it should or should not be dispensed with.

NOTE—Contn. sheet.

GPB—60,000—7-11-13

2436

G. R. S. 12]

General and Revenue Secretariat. | L. B. File No. 133 of 1912-3

Serial No.

The Chief Engineers' opinion was received only towards the very end of Nov last. The Establishment has done some work most of which is necessarily of an experimental character. Though the Chief Engineer considers that the Establishment may be dispensed with, Dr Sneath does not seem to go so far. In the opinion of the latter, some definite conclusion in the matter can be arrived at only during the next Summer. There is much force in this. It is more expedient to abolish a Staff on the strength of the practical experience of its uselessness than to do so on a mere forecast of results however probable it may appear.

63) Hence, the retention of the Staff may be continued as a final measure, up to the end of June next; A draft order is put up for consideration to this effect.

64) If it is approved, Dr Sneath will be asked to send up his test report of the results perceived on or before the 30th April 1914. To consider the report & pass orders Govt will have nearly 2 months time.

Draft Am 8/12

2nd Comn. 1 Drawn

D. M. Hamilton 4/12

65) Mr Hamilton approves

Drawn 5/12

Draft approved 5/12 Am 5/12

6425 5-12-13

66) I agree - Draft approved 6.12.13.

Rl Dear 8/12

67) Issue the note marginal instructions Am 8/12

[Contd on page 21]

1) Rel. at 5 p.m. 6/12/13
2) Ref. 7/12/13 Issued Cont. for issue 8/12/13.

NOTE—Contn. sheet.

GPB—60,000—7-11-13

G. R. S. 12]

3418

General and Revenue Secretariat. | L. & File No. 133 of 1912-3

Serial No.	
14	From the State-Geologist. No 1413 dt 13.11.1913. With refce. to G.O. dated 9. the retention of the Boring Operations & the staff until the close of Dec.r 1913, Govt. orders as to whether the services of the staff are to be dispensed with from 31-12-1913.
	Re G.O. sanctioning the further retention of the staff till June 1914 was issued on 12/13.12.13 will have reached the State Geologist immediately after the despatch of this letter by him to Govt.
	The original file with draft calling for a ~~last report~~ further information from the State Geologist in connection with the permanent retention of the staff was subd. to the Deputy Secy. to Govt.
	L.R. 33 16/12/13 Subject to orders in the reference in para 3 of the present reference
	16.12.13 I have sent back the file with orders.
	Dy Secy)
	17/12

i-e-f-t-a, regional Geological Survey Department in Chief.

Govt 16/12

Govt 17/12

NOTE—Contn. sheet.

GPB—60,000—25-9-13.

G. R. S. 12]

2436

General and Revenue Secretariat. | L.D. File No. 130 of 1912-3

Serial No.

[Contd. from page 19]

68) Draft of a letter to the State Geologist with reference to para 64 supra

Please issue the G.O. to submit

Ag. 33
13/12/13 (11)

13. 69) To the State Geologist; Chief Engineer; Comptr; Rev. Comr.; Presidy Surgeon; Spl. Adviser, Industries & Commerce; Secy., Economic Conference; Dy. Comrs of Bds. No. 6040-61 & 12. 12. 13. Directs that the temporary staff employed on well-boring operations in the State be retained for a further period of 6 months i.e. upto the end of June 1914.

70. File resubd as directed in the margin with draft already put up.

Ag. 33
13/12/13 (11)

71. Dy Secy)

15/12

72. Done & submit the file on 30/4/13, if not earlier.

Done 17/12

15. 73) To State Geologist No 6378 & 22nd Dec 1913. Requests him to submit a report, before the 30th April 1914, on the practical results of the well-boring operations conducted by the staff referred to in para 6 of his No 89 S & 21-10-1913.

16 74) From the State Geologist. No 2692 & 27.4.14. Submits the report called for in

NOTE—Contn. sheet.

GPB—60,000—7-11-13

G. R. S. 12]

6276

General and Revenue Secretariat. | L. R. File No. 133 of 1912.

Serial No.

Sl. 15 above & State that the results already arrived at are not sufficient to warrant any definite Conclusions on the subject.

75) As it appears too soon to expect any definite results before the term of the present staff expires in June next, orders will have to be passed early with regard to its further retention.

Sl 33 for orders
1/5/13 76) Subject to reference to para 72 of these notes.
2 (11)

Dr Lee 4/. Am 2/5

77) The State Geologist is still sceptic regarding the results achieved so far, as he is not for advising the people to spend money on such experiments. The establishment has been in existence from January 1910, its term being extended from time to time. As recommended by the Chief Engr, the establishment may be disbanded after the present & further developments regarding the use of which the bore-holes are put by the people, watched

Paras 54 Supra, Secs 16 & 17.

Lee 4/.

bl 3/5 Am 4/5

NOTE—Contn. sheet.

GPB—60,000—7-11-13

6276

G. R. S. 12]

General and Revenue Secretariat. | L. B. File No. 133 of 1912.

Serial No.

75) The report of the State Geologist is inconclusive in character & not-helpful for the decision of the question whether the temporary establishment for well-boring should or should not be continued. His report seems to be apparently based on that of the Boring Operator. It is better to have the opinion of the Dy Comm^r of Kolar on the point. If the Second Member accepts this view, an enquiry will be made.

(Second member)

Dy Commr Kolar
Asst 5/5
5/5

77) No objection. An early report may be called for

Asst 6/5
5/5

78) Draft.

Asst 6/5

79) Draft submitted accordingly.

Kp. 33
7/5/14 Dy Secy
B.

Asst 12/5.

82) Approved

Secy 12/5

83) Letter Asst 12/5

17 84) To the Deputy Commr, Kolar. No 11569, dt 16.5.14. Calls for a report on the practical results of the boring operations conducted by

NOTE—Contn. sheet.

GPB—60,000—25-9-13.

G. R. S. 12]

6276

General and Revenue Secretariat. | NB. File No. 133 of 1912

Serial No.

The well-known services of the staff in her District since their Entertainment (in Jan^y 1910) together with her opinion in the matter of the further retention of the staff.

85) No reply has yet been received. As the term of the staff expires by the end of 30-6-1914 a draft reminder is submitted.

P.S. 13.6.14.

86) Office to resubmit at once.

Asm 15/6

87) To Deputy Com^r., Kolar. No. 12733 of 16.6.14. Requests him to expedite the submission of the report called for in sl. 17 for reasons stated.

88) Dft resubd as directed by the Asst Secy in para 86 supra after the issue of Reminder.

K.P. 33 16/6/14

89) Orders extending the term of the staff temporarily at least are required before 30.6.14. Subd for orders.

Dy Secy

Asm 17/6.

90) There is no requisition for a temporary extension of the term of the staff as yet.

Secy)

16/6

Asm

NOTE—Contn. sheet.

G.P.B—60,000—7-11-13

G. R. S. 12]

General and Revenue Secretariat. | L. P. File No. 133 of 1912.

Serial No.

91) Issue a telegram today to Kolar Dy Comm^r to get the report
Keep this file in sight please.

Issue
18/6
Hon 6/

92) Draft Telegram Subd.
K.L. 33
18/6/14.

93) Issued
Hon
18/6.

94) To the Deputy Comm^r, Kolar. Telegram dt 18.6.14
Requests him to expedite the report called for in Sl No 17.

95) From the same Officer. Telegram dt 20.6.14. Replies that
the Report in question has been despatched

18 96) From the same officer. Letter no. 1780 dt 20.5.14.
States that, under the circumstance explained,
the Continuance or otherwise of the Well-boring
Establishment is a matter for the Govt. to decide.

97) Subd for orders with papers.
K.L. 33.
24/6/14 98) The Dy Comm^r is also not quite in
favour of the Continuance of the
Well-boring Staff.

99) Subd for orders.

Hon
24/6.

Dy Secy

100) Secy

Hon
24/6

101) In the East-Canara Conference there was much
discussion about the work being conducted on revised lines

NOTE—Contn. sheet.

GPB—60,000—7-11-13

7466

G. R. S. 12]

General and Revenue Secretariat.

L.B. File No. 133 of 1912.

Serial No.

The file was kindly be sent to be sent on to the D.O. direct, to save time

Dwarkanath 25/6

Dr Smeaton's latest report is not altogether unfavourable. The Establishment may be sanctioned for 6 months pending orders on the question of revising the lines of work.

Second member Dewan.

Dwarkanath Rao 25/6 L. Am.

I agree well 26/6

NOTE—Contn. sheet.

GPB—60,000—7-11-13

7466

27)

G. R. S. 12]

General and Revenue Secretariat. | L. B. File No. 133 of 1912.

Serial No.

10,300

103) If the Second Member has no objection, I think, we may disband the existing establishment, the well-boring operator being asked to report himself to the Secretary P.W., where there is need for his services.

104) Proposals regarding the terms of his employment in the P.W.D. may be submitted for the approval of Government by the Secretary, P.W.D.

105) The question of experimenting with power drills, which I understand is pending with the Secretary, E. & A. should be expedited.

27-6-14

(Second Member)

Draft agreed. 29/6

106) Necessary action as per course suggested above

29/6

107) Draft tomorrow before noon

Done 29/6

108) Draft put up with reference to para 103 ante. Extracts of paras 104 & 105 may be forwarded after the issue of the draft, for information & necessary action by the Secretaries Concerned.

109) Memoranda forwarding extracts of Govt's order to Secretaries D&W & E&A also put up for appl.

30/6/14

NOTE—Contn. sheet.

GPR—60,000—7-11-13

G. R. S. 12]

General and Revenue Secretariat. | L. B. File No. 133 of 1912.

Serial No.	
	110) Draft submd
	Secy 111) Issue before 4 pm today. Asst 30/6. Draft 30/6. Asst 30/6
19	112) To State Geologist; " Chief Engineer " Comptroller " Rev. Comr. " Dy. Comrs. Delhi & Karnal Divs. " Special Adviser, Industries & Commerce " Secy, Economic Conference " Secy, Edn. & Agriculture " Directs that the temporary well-boring Estt. be disbanded with effect from 1.7.14 & that the well-boring Operator be instructed to report himself to the Secy P.W.D for duty. No. 13300-14 dd 30.6.14
20	113) To the Secy., P.W.D. No. 13315 dd 30-6-14. Submitted forwards in continuation recent intrests from the Deputy Comr Rohtak for his information & necessary action.
21	114) To the Secy., Depts. of Education & Agriculture No. 13316 dd 30.6.14 - do do do -
22	115) From the State Geologist. No. 23 dd 2.7.14. Requests permission, with refce to C. of above, to retain the services of the Boring Operator alone until the tools, plant, &c. can be properly checked & requests instructions as to whom they are to be handed over.

NOTE—Contn. sheet.

GPB—60,000—7-11-13

G. R. S. 12]

89

2q

General and Revenue Secretariat. | L. S. File No. 133 of 1912.

Serial No.

116) Sub? for orders - the State Geologist may probably be
Kl. 33 informed that the Boring Operator may be asked
3/7/14 to hand over the tools, plant etc to
B[illegible] the Ex. Engr, Water Supply and
Stores Dte. &c

117) A Supplementary order
may hereby be issued, after the receipt
of a final report from the State Geologist,
extending the period of ~~employment~~
employment of the several members of
the establishment up to the dates on which
their Services, each, are actually dispensed with.

Asst
8/7.

Dy Secy

118) Please put up a draft.
The tools & plant may for
the present be ~~kept~~ given over
to the Dy Conservator of the Kolar Dt

B
8/7 Asst

119) Draft submitted accordingly.

Kl 33
7/7/14
120)

Asst
8/7.

B[illegible] Dy Secy

23 121) From the State Geologist 334 & 8.7.14
Reports in Continuation of Kl. 22, that the

NOTE—Contn. sheet.

GPB—60,000—7-11-13

89
384

G. R. S. 12]

General and Revenue Secretariat.

A. File No. 133 of 1912.

Serial No.

Boring operator has been relieved in the afternoon of the 8th inst: & directed to report himself at once to the Secy., P.W.D and that the services of the master & Coolie attached to the Establishment have been discharged with effect from forenoon of the same date & requests immediate instructions as to the disposal of the Boring tools & plant.

122) Draft put up with reffee. to para 118 supra & marked to Deputy Secy has been kept back in view of the present report.

123) Subd. for orders with reffee to para 2 thereon.

Kp. 33
2/7/14.

124) Draft put up as per verbal orders of the Asst. Secy

Dy Secy)

Asst
1/7.

125) Draft may be issued

Asst
2nd Member

126) Draft issued by 2nd Mr. dated 1/7

Asst
13.7

127) Issue slip

1/7.

NOTE—Contn. sheet.

GPB—10,000—13-6-14

334

G. R. S. 12]

General and Revenue Secretariat. | L. B. File No. 133 of 1912

Serial No.

Reg) Remarks
It is understood that the bolts have been brought to Bangalore - So I have slightly modified the draft which may be approved

2nd Member 16/7/14

Approved
16/7
31
16/7 BOM

24. To the State Geologist, Comptroller etc. No 716-9 dy 17/7/14. Records and Communicate the correspondence on the subject to the Comptroller and requests the State Geologist to hand over the tools and plant to the Chief Engineer pending final orders.

NOTE—Contn. sheet.

GPB—10,000—13-6-14

D 801

Abrent

1

W 166

[M.G.D. 14]

No. 2946

MYSORE GEOLOGICAL DEPARTMENT.

DATED BANGALORE, 16th June ~~190~~ 1913.

From

DR. W. F. SMEETH, M.A., D.SC., A.R.S.M., &C.,

~~Chief Inspector of Mines in Mysore~~. State Geologist in Mysore.

L.B.(133-12)-7

To

K.R. Sreenivasa Iyengar, Esquire, M.A.,

Secretary to Government, General and

Revenue Departments.

SIR,

With reference to G.O.No. C 176-97/Ml 224-11, dated 28th October 1912 and G.O.No. 5053-74/L.B.133-12-2, dated 16th January 1913, sanctioning the retention of the services of Mr. Rangaswamy Iyengar, Well Boring Operator, upto the end of June 1913 and the employment of a Mestri and a cooly, I have the honour to state that well boring operations are now in progress at Tiptur in connection with the question of a water supply for that Town.

2. These operations will not be completed by the end of June 1913 and it is desirable that the services of the above mentioned staff should be continued for a further period to enable further experiments to be made in connection with numerous applications which have been received for the putting down of boreholes A good deal of time has been spent in getting the staff to work and in preparing the necessary tools and appliances and there has not been sufficient time to secure definite results one way or the other. It is most desirable, therefore, that the work should be continued for a further period - say one year - and

that

provision should be made for the payment of the above mentioned staff from the 1st of July 1913.

3. The well boring operator - Mr. Rangaswamy Iyengar represents that he has now been employed on a salary of Rs80/- per month for the past 3 years and requests that he may be given an increase of pay.

4. In this connection I may say that he has worked well and done his best with the appliances at his disposal while he has been with me but I would suggest that it would be much better if the whole staff and the tools were placed under the charge of the Director of Commerce and Industries and his opinion taken as to the pay and further employment of the staff.

5. In the meantime I beg to request that arrangements may be made for the payment of the salaries of the staff from the 1st of July pending further arrangements.

I have the honour to be

Sir,

Your most obedient servant,

State Geologist in Mysore.

M.G.D. 12]

MYSORE GEOLOGICAL DEPARTMENT.

DATED BANGALORE, 16th July 1913. 19

No. 186. En. One

FROM

DR. W. F. SMEETH, M.A., D.Sc., A.R.S.M., etc.,
Secretary to the Government of H. H the Maharaja of Mysore,
Geological Department.

To

K.R. Srinivasa Iyengar, Esquire, M.A.;-
Secretary to the Government of His Highness the Maharaja
of Mysore, General and Revenue Departments,
BANGALORE.

SIR,

I have the honour to invite your attention to my letter No. 2946, dated 16th June 1913, about the further continuance of the services of the Boring Operator and his Staff, and to request the favour of early orders of Government thereon.

2. I may point out that the work in progress is being continued pending formal sanction of Government to the engagement of the Staff for a further period, and that, if it will facilitate matters, I am quite prepared to look after the work for another year or pending the decision of Government as to the desirability of putting the work under the charge of the Director of Industries and Commerce.

3. With reference to paras 3 & 4 of my above letter, I beg to submit herewith in original for the favourable consideration of Government a letter addressed to me by the Boring Operator on the subject of his pay and prospects under the Government. I have no information about the special appointment referred to by him as under the contemplation of Government in the Department of Industries and Commerce. But it seems to me that

GPB-500-19-3-13

that the representations made by him regarding his prospects are deserving of consideration and that if he cannot at once be put on a permanent footing with the advantages of a permanent employee, it is only reasonable that he should be compensated by a substantial addition to his present pay, say, by an increase of Rs. 20/- per month thus bringing his pay up to Rs. 100/.

4. The Operator also asks for a"better rate of Travelling allowance".He now draws the general rates sanctioned for clerks and I understand that what he desires is that he should be given daily batta at 4/10ths of pay which is allowed to my clerks.

5. Of the work of the Boring Operator under me, I have already expressed my opinion in para 4 of my letter referred to above

I have the honour to be,

Sir,

Your most obedient servant

Secretary to Government,

Geological Department.

are being made for being in charge of Engine Installations in connection with the sugar and other industries. I consider that I possess sufficient qualifications to be in charge of such works and I therefore pray that you will be pleased to recomend me for one of those permanent posts.

In case however Government cannot see their way to confer on me one of the posts above referred to, I beg that Government may be pleased to give me an assurance of a permanent post in the Department of Industries or other Departments for which I may be found fitted.

Seen by State Geologist
Dyr Mechanic
9.7.13

Lbd.
2.0.
9.7.13.

I beg to remain, Sir,
Your most obedient servant,
[illegible]
Well-Boring Operator

Urgent.

re the retention of the well-boring
Estt. under the State Geologist.

G.R.S. 28]

1918
15 Sheets

7

ab

File No. 133-1

Serial No. 9

Diary No. of letter replied to 8011
524

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT.
(&B.)

READ—

, *the* 191 . Letter no. 2946 dt 16-6-1913

from the State Geologist-Bombay,

Date of issue 20.6.13.L. with reference to G.O. nos C. 176-97 Ls. (224-11)-1

Signed by Mr A.V. Ramanathan dt 28.10.1912 and 5053-74 dt Ls. (133-12)-2.

16.1.1913, that the well boring

ORDER THEREON.—No.

operations which are now in pro-

gress at Tiptur in Connection

with the question of a water supply

for that Town, will not be Com-

pleted by the End of June 1913

over.

SUBJECT.

Ans/15/4

and requesting sanction to the retention of the staff for a further period if necessary under the circumstances explained and suggesting at the same time the desirability of ~~transferring~~ placing the whole staff under the control of the Director of Industries & Commerce and of taking his opinion in the matter of increment to the pay of the well-boring operator.

Well boring operator Rs. 80
mistry " 25
boy " 7

Letter no 186 dt 15-7-1913 Letter under disposal
from the same officer reporting that the work in progress is being continued pending sanction of Govt to the replacement of the staff in question for a further period and that if it will facilitate matters, he is prepared to look after the work for another year, if necessary and recommending that the pay of the Boring Operator may be raised from Rs. 80 to Rs. 100 or

G.R.S. 27]

GENERAL AND REVENUE SECRETARIAT.

(Continuation sheet draft form.)

4.

Order thereon — 2114-27 LB 133-129 & 2D. 8. 13

The further retention of the staff in question till the close of December 1913 is sanctioned the charge being debited to local fund general and the staff continuing to work under the State Geologist.

2. Government ~~direct~~ to grant the increase they recommended to the well-boring Operator.

do not consider it ~~expedient~~

Ker 1/8

18. 8. 13 KB

Hy 23/7.

Secy 24/7 Secretary

Ker 24/7/13 hw 27/7/13

To the State Geologist in Jam.

" Special Adviser Industries & Commerce

" Rev: Com.

" Chief Engineer.

" Comptr

" Presdy Dis'ds, L

" ~~Revenue~~ Secy, Economic Conference

" Deputy Comrs. of Dists.

G. R. S. 26]

File No. 133-12

Serial No. 11

524

Diary No. of letter replied to 1970

General and Revenue Secretariat

(GS.)

, *the* 191 .

Date of issue 17.10.13

Signed by M. A. V. Ramanathan

No. 4795

LB 133-12

dy 17.10.13.

To

The State Geologist

Sir,

In inviting attention to this office letter no 3531 dt. 133-12-10 dy 11.9.13 requesting certain information in connection with boring operations conducted by the well-boring expert, I am directed to request you to be so good as to expedite the submission of the same.

I have, &c.

over.

KP 33
4/10/13

SUBJECT.

Asst
14/10

Secy

13

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT,

DATED BANGALORE,...24th October.....1913..

No. 895

D 2436

From

DR. W. F. SMEETH, M.A., D.SC., A.R.S.M., etc.,
State Geologist in Mysore.

L.B (133-12)-12.

To

K.R. Srinivasa Iyengar, Esquire, M.A.,
Secretary to the Government of His Highness
The Maharaja of Mysore, General & Revenue
Departments, Bangalore.

Sir,

In reply to your letter No. 3531, dated 11th September 1913, I have the honour to enclose a report by Mr. Rangaswamy Iyengar, Boring Operator, on the boring operations conducted since January 1910.

2. A summary of this report shows that 60 boreholes have been put down to an aggregate depth of 2521 feet. Of these holes 54 are stated to have been successful and 6 failed.

3. 13 wells are stated to have been sunk as a result of the borehole experiments and have yielded supplies of water. In a well at Chickballapur, which had been sunk to a depth of 53 feet by the Municipality and which had become dry in the early part of 1910, a borehole was put down which tapped water so that the water rose in the well. The supply of water has be maintained ever since and is largely used by the people of the Town.

4

GPB—400—21-6-10

4. In the Taluks of Sidlagatta and Goribidnur a number of boreholes have been put down at the bottom of the existing wells and these are stated to have been increased the supplies of water available for irrigating sugarcane and mulberry gardens.

5. In addition to these, definite schemes have ben proposed for sinking wells and obtaining good water supplies for the Towns of Chickballapur and Tiptur as the result of trial borings which have been put down.

6. It is at present impossible to say whether the improvement in the supply to any of these wells is of any considerable maghitude or whether the improvement is permanently maintained and a further report on the results obtained should be made during the ensuing dry weather.

7. My present opinion is that the increase in supply so obtained is not likely to be large or to be permanently maintained and that in order to get better results it will be necessary to deepen the wells themselves. This is a point on which I shall be able to give a more definite opinion after next dry weather.

8. I am satisfied however that, except in specially favoured localities, the results obtained from the comparatively shallow borehole which can be sunk with our existing tools are not likely to be of much consequence.

9. The experiments already made amply confirm the conclusions reached in my Notes on Underground Water Resources in Mysore, namely that the hand boring tools, such as are now supplied with, are incapable of penetrating sufficiently deeply into the hard rock and that the holes sunk by them in the softer superficial materials give, as a rule, meagre and unsatisfactory results.

10. I have submitted to Government definite proposals for the sinking of boreholes and deep wells (vide memo to Dewan No. 161, dated 18th January 1913), but orders in regard to these have not yet

been received. These proposals fall under two distinct ~~leads~~ heads viz, (1) Boreholes and (2) Deep wells. Of these the proposals relating to deep wells are the more important and embrace a definite scheme for the sinking of wells to a greater depth than is attained according to present methods.

11. I have submitted definite schemes for the sinking of deep wells in the case of Chickballapur Town and Tiptur Town, both of which schemes should, in my opinion, be taken in hand at once. Until these wells have been sunk and the results ascertained it is no use talking or writing further about the matter. I have discussed the matter on theoretical grounds for a number of years and what we want now are some practical tests. Until these tests have been made, I am not prepared to offer further advice or to encourage people in spending money more or less blindly.

12. If the Municipalities of Chickballapur and Tiptur cannot find the money for the schemes which I have suggested, I am of opinion that Government should find the money in view of the fact that the work is largely of an experimental charcter, which, if successful, may have far reaching results. The results of the experiments will enable us to speak more definitely than would be justifiable at present and if successful I have no doubt that other Municipalities or Communities would come forward with the money necessary for sinking other wells.

13. The two schemes which I have proposed are in connection with supplies of water for towns, but the work will give us ~~no~~ information which may be very valuable in regard to the sinking of wells for intensive cultivation. If the proposed schemes are successful, Government could doubtless arrange for the expenditure to be taken over by the Municipalities concerned, but I can well understand that the latter hesitate to spend money on schemes about which we cannot give them any reasonable

assurance

assurance of success derived from practical tests.

14. In regard to deep boreholes I have already pointed out that our present tools are of comparatively little value. They are expensive to use and do not provide boreholes from which useful supplies can, as a rule, be expected. If we want to obtain supplies from boreholes, it will be necessary to sink much deeper than can be done with the existing tools and the only way to do this is by having a power-drill and a competent staff. I cannot say definitely what the results will be, ~~by~~ but there is every reason to expect that supplies suitable for small villages, where there is at present a scarcity of water, can be obtained.

15. The development of these deep boreholes is of comparatively less importance than the sinking of deep wells and the latter has the advantage of requiring little special plant or equipment and I would urge that the sinking of some of these wells should be taken in hand at once. Until this is done no further advance can be made.

16. I enclose for your information my office copies of the undermentioned papers and shall be glad to have them back as soon as done with:—

1. Memo No. 161 ~~for~~ on the sinking of boreholes and deep wells, dated 18th January 1913.

2. Letter to Chief Engineer No. 785, dated 18th September 1912, with report on the water supply of Chickballapur.

3. Letter to the President of the Municipality of Tiptur, No. 697, dated 16th September 1913, on the sinking of a deep well for Tiptur; (With two enclosures)

I have the honour to be,
Sir,
Your most obedient servant,

W. F. Smeeth

State Geologist in Mysore.

Encl W.L.P 133-12-17

Report on the well boring operations conducted in Mysore Province from the year 1910.

(By K.V. Ramaswamy Iyengar, Boring Operator.)

Chickballapur Taluk.

No.1 Bore-80' deep--20' lining.
" 2 " 117' " 67' "
" 3 " 53' " 16' "
" 4 " 102' " 71' "
" 5 " 29' " .. "
" 6 " 50' " 37 "
" 7 " 50' " 37' "
" 8 " 50' " 45' "

Nos. 1 & 2 boreholes were put down in the bottom of existing wells, which are now getting a good supply of water from the bores. No. 3 experiment was successful, but no well has been sunk by the Municipality.

The boreholes Nos. 4,5,6,7 & 8 were sunk in a valley below the Kandavara Tank to test the thickmess of the sandy bed for the sinking of the wells in connection with the water supply scheme of the Chickballapur Municipality.

Goribidnur Taluk.

No.1 1 Borehole- 35' deep, 30' lining.

No. 2 20 Boreholes- each 31' deep in Talaparagies. } Total 620'. ~~in Tala-~~

No.3 6 Boreholes - each 20' deep in irrigation wells. } Total 120'. ~~deep~~.

no.4. ~~No.~~9 boreholes in
Hudugur Doddakere ~~tank Deep~~.
each 20' deep. Total 180'.

No.1 borehole was sunk to demonstrate the well-boring operations to the people of the Taluk, who assembled there (Goribidnur) during the Agricultural & Cattle Exhibition, 1911.

(2) 20 bores were put down to test the Talaparagies in Goribidnur Taluk.

(3) 6 boreholes were put down from the bottom of the irrigating wells, which were deficient in supply and a good sub-artesian current was tapped in these wells, which are now receiving a very good supply.

(4) 9 boreholes were sunk in the Hudugur Doddakere Tank to test if the Talapargies could be improved.

In addition to the boring operations carried on in Goribidnur Taluk, two abyssinian Tube-wells were installed near the ~~town~~ town, to supply pure and uncontaminated water, at the request of the residents of the town and these installations are working satisfactorily.

Sidlaghatta Taluk.

No.1	Bore -	39'	deep,	33'	lining.
" 2	"	51'	"	45'	"
" 3	"	38'	"	27'	"
" 4	"	49½'	"	45'	"
" 5	"	83¼'	"	..	"
" 6	"	38'	"	32'	"
" 7	"	45'	"	38'	"

Nos.1, 3 & 7 holes were sunk from the Ground Level and the ryots have excavated wells in the tested sites, and they are giving good supplies of water. Nos.4 & 6 bores were put down from the bed of existing wells, which contained only a small quantity of percolation water. The tapping of the sub-artesian current in these wells has improved the supply in the wells and the ryots are utilising the water for irrigation purposes.

Boreholes Nos.2 & 5 have proved unsuccessful.

Malur Taluk.

No.1	Borehole	99'	deep;	99'	lining.
" 2	"	85'	"	75'	"
" 3	"	120'	"	119½'	"
" 4	"	55'	"	44'	"
" 5	"	55'	"	44'	"

Boreholes Nos.2 & 3 have proved successful and the remaining boreholes have failed.

In No.2 borehole a new well is proposed to be sunk by the Municipality.

In the case of No.3 borehole the existing well is not deep enough and the water could be obtained by deepening it.

Kolar Taluk.

No.1 Borehole 120' deep; 64' lining.

The experiment was successful, but nothing has been done further.

Bangalore Taluk.

No.1 Borehole - 50' deep; 48' lining.

The sinking of the borehole in this well had to be stopped completely at this depth as hard rock, which was met with, could not be penetrated with the tools available.

The supply of water at the depth reached was tested and found to be small, but sufficient water for the requirements of the owner of the premises could be obtained by sinking the well to the depth of the borehole.

Tiptur Taluk.

No.1 Borehole 42½' deep; 40½' lining.
" 2 " 65½' " ; 64½' lining.

No.1 borehole could not be sunk further as hard rock was encountered. It gave a fair supply of water when tested by a pump - about 230 gallons per hour.

No.2 borehole had to be stopped owing to the breaking of the worm auger in it which could not be removed.

When tested with a pump it yielded about 70 gallons per hour.

The ~~tal~~ total number of the boreholes that were sunk from the year 1910 comes to 60 aggregating to a total depth of 2521 feet, of which 54 boreholes have proved successful and 6 failed. The number of the wells sunk by the test of the boreholes and supplied by the sub-artesian current ~~being~~ was 13.

In

In Chikballapur a well of 53 feet deep, 10' in diameter costing about Rs.2000/- was sunk by the Municipality in the year 1909 and the same went dry in the beginning of 1910.

At the bottom of this well, a boring has been put down through clay to a depth of 27 feet. At this depth a sub-artesian supply was tapped and the water flowed up the pipe with considerable force and filled the well to a depth of 12 feet which depth is apparently still maintained although more than half the population of the town resorts to this well; especially in summer season the whole town depends upon this well and on another small one, in which too boring had been of success. Had it not been for the boreholes sunk in this well, this costly well would probably still be dry and the town- townspeople would have been put to much hardship for drinking water. In addition to this the existence of a sandy bed has been traced by the sinking of a series of boreholes in the valley below Kandavara tank, for the sinking of wells in connection with the water supply scheme of Chikballapur Municipality.

In Sidlaghatta Taluk the short supply of the wells for irrigating sugarcane and mulberry gardens, was keenly felt by the ryots and the wells could not be deepened owing to the nature of the soil, with the result that the ryots had to be content with the small quantity of percolation water. The putting down of these boreholes has opened a spring, which is feeding all these wells and thereby the ryots got a very ample supply of water for irrigating sugarcane and mulberry gardens.

In

In Chikballapur a well of 33 feet deep, 10' in diameter costing about Rs.2000/- was sunk by the Municipality in the year 1909 and the same went dry in the beginning of 1910.

At the bottom of this well, a boring has been put down through clay to a depth of 27 feet. At this depth a sub-stratum supply was tapped and the water flowed up the pipe with considerable force and filled the well to a depth of 12 feet which depth is apparently still maintained although more than half the population of the town resorts to this well: especially in summer season the whole town depends upon this well and on another small one, in which too boring had been of success. Had it not been for the boreholes sunk in this well, this country well would probably still be dry and the somewhat-tolerable would have been put to much hardship for drinking water. In addition to this the existence of a sandy bed has been traced by the sinking of a series of boreholes in the valley below Kandavara tank, for the sinking of wells in connection with the water supply scheme of Chikballapur Municipality.

In Siddanhatta Tank the short supply of the wells for irrigating sugarcane and mulberry gardens, was keenly felt by the ryots and the wells could not be deepened owing to the nature of the soil, with the result that the ryots had to be content with the small quantity of percolation water. The putting down of these boreholes has opened a spring, which is feeding all these wells and thereby the ryots got a very ample supply of water for irrigating sugarcane and mulberry gardens.

In

In the same way in Goribidnur Taluk the supply of water in the irrigation wells was improved by the sinking of the boreholes in the wells as well as in the Talaparagis.

In Kolar & Malur Taluks, it has been proposed to deepen the wells in which the bores have proved of success.

As regards Tiptur Taluk, the President of the District Board of Tumkur, has been addressed regarding the sinking of wells on the 2nd site.

Copy

W. Smeeth
State Geologist
in Mysore -
21-10-1913.

In the same way in Gorikhpur Taluk the supply of water in the irrigation wells was improved by the sinking of the boreholes in the wells as well as in the Talaprang.

In Kolar & Uglur Taluks, it has been proposed to deepen the wells in which the bores have proved of success.

As regards Tiptur Taluk, the President of the District Board of Tumkur, has been addressed regarding the sinking of wells on the 2nd site.

sanctioning the further retention of the well-boring staff till the end of June 1914.

G.R.S. 28]

23

File No. 133-12

Serial No. 13

Diary No. of letter replied to 2136

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT.
(L.B.)

, *the* 7th May 191

READ—

Cons

G.O. no 2114-27 dt 20.8.13
L.B. 133-12-9

sanctioning the retention of the well-boring staff employed under the State Geologist till the

Date of issue

Signed by Mr A.V. Ramanathan

ORDER THEREON.—No.

End of December 1913.

Paper noted in [illegible]

Correspondence Ending with letter no 895 dt 21.10.13 from the State Geologist submitting a report on the work turned out

over.

SUBJECT.

2h

by the Staff Concerned.

Order thereon. 6014-61 L63133-12—13 9/12:12:13.

Government are pleased to direct:
that the temporary staff Employed on well-boring operations in the state be retained for a further period of 6 months i.e. till the End of June 1914 the charge being debited to Local Funds General as hitherto.

W.W.
5/12

Am
4/12
Dr Secretary
DWW 4/12
6/12/13
RB

KL-33
4/12/13

To the State Geologist in Mysore relaying all the 3 Enclosures rec'd with the letter read above.

" Chief Engineer
" Comptroller
" Rev. Com^r
" Presdt of Dt Bds
" Secretl Director, Industries & Commerce
" Secy, Economic Conference
" Deputy Comrs. of Dts.

GPB—20,000—2-10-10

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT,

L.B.(133-12)-14 DATED BANGALORE,...13..December.....1913.

No. 1443

D 3418

FROM

DR. W. F. SMEETH, M.A., D.Sc., A.R.S.M., etc.,
State Geologist in Mysore.

To

K.R. Srinivasa Iyengar, Esquire, M.A.,
Secretary to the Government of His Highness the Maharaja
of Mysore, General & Revenue Departments.

SIR,

With reference to Government Order No. 2114-27/L.B. 133-12-4, dated the 20th August 1913, sanctioning the retention of the services of the Boring Operator and his staff until the close of December 1913, I have the honour to solicit orders as to whether the services of the staff are to be dispensed with from the 31st of December 1913.

2. The boreholes at Tiptur have been finished and I have given the operator some further boring work to do.

3. Nothing has been done up to the present in the way of sinking deep wells or utilizing in any way the information ~~obtaining~~ obtained by boring and I do not see much use in continuing these boring operations, unless they are to be of some use.

4. If the staff is to be dispensed with, I would request permission to transfer all the boring tools to the charge of

the

the Water Supply an d Stores Division where they can be stored and looked after.

I have the honour to be,

Sir,

Your most obedient servant,

State Geologist in Mysore.

K.R. Srinivasa Iyengar, Esquire,

Secretary to the Government of His Highness the Maharaja of Mysore, General & Revenue Departments.

With reference to Government Order No. 2114-27\J.B. 128-13-G. dated the 20th August 1913, sanctioning the retention of the services of the Boring Operator and his staff until the close of December 1913, I have the honour to solicit orders as to whether the services of the staff are to be dispensed with from the 31st of December 1913.

2. The boreholes at Tiptur have been finished and I have given the operator some further boring work to do.

3. Nothing has been done up to the present in the way of sinking deep wells or utilising in any way the information gathered by the boring and I do not see much use in continuing these boring operations unless they are to be of some use.

If the staff is to be dispensed with, I would request permission to transfer all the boring tools to the charge of the

G.R.S. 26]

File No. 133-12
Serial No. 15

Diary No. of letter replied to 2536

No. 6375
LB.133-12-
dt 22.12.13.

General and Revenue Secretariat
(LB.)
, *the* 19 .

To
The State Geologist.

Sir,

Date of issue 22.12.13.

Signed by Mr A.V. Ramanathan

In Continuation of G.O. No. 6040-61 L-B:133-12-13 dt 12th instant launching the retention of the well-boring staff employed under you for a further period of 6 months i.e. till the end of June 1914, I am directed to request you to be so good as to forward on or before the 30th April 1914, a report on the practical results of the working of the

over.

SUBJECT.

28

In Connection with the boring
operations Conducted by the
staff ~~Co~~ ~~Recorded~~ referred to
in paras
6 & 7 of your letter no 895
of 21st October 1913.

Issued, &c

Dwg
15/12/13 Seen,
17/12

14C 33
10/12/13.

List of enclosures.

Copied by

Examined by

GPB—20,000—26-9-10

29

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT,

DATED BANGALORE, 27th April 1914

No. 2692
Encl. One

D 6276
L.B 133-12-16.

FROM

DR. W. F. SMEETH, M.A., D.Sc., A.R.S.M., etc.,
State Geologist in Mysore.

To

K.R.Sreenivasa Iyengar, Esquire, M.A.,
Secretary to the Government of His Highness
the Maharaja of Mysore, General and Revenue
Departments.

SIR,

In reply to your letter No. 6375/L.B.133-12-15, dated 22nd December 1913, asking for a report as to the increased water supplies which may have resulted from well boring operations, I have the honour to state that I instructed the Boring Operator to visit the sites of the various boreholes put down by him in the Kolar District and I append hereto his report thereon.

2. It will be seen that only in one case - viz, No. 1 borehole at Chickballapur - has the borehole resulted in a definite increase of water to the well. This increase has undoubtedly proved useful to the Town, but I understand that the supply is still inadequate and I have submitted a scheme for constructing a new well as the result of other trial borings in the same neighbourhood.

3. In other cases it is doubtful how far boreholes have increased the well suppies, though it is probable that they have done so to a small extent. The main result however has been that the owners of wells have deepened several of these as a result of the evidence afforded by boreholes and in several cases they appear to be

be satisfied with the results and propose to deepen other wells in the next dry season. In some cases new wells have been sunk in places where trial borings indicated supplies of water at moderate depths.

4. We require however more precise and definite information before I should feel justified in advising people to spend money on wells and with this view I have suggested the sinking of two wells at Chickballapur and Tiptur and the systematic testing of these by pumping to see what sort of supplies can be expected under the conditions which obtain there. Until something of this sort is done, work must remain haphazard and only very doubtful and indefinite advice can be given.

I have the honour to be,

Sir,

Your most obedient servant,

State Geologist in Mysore.

Govt LB 133-12-46 31

Report on Inspection of boreholes in the Kolar District.

By K.V.Rangaswamy Iyengar, Boring operator.

As directed by you, I visited the following Taluks of Kolar District and inspected the places where bores have been put down previously and I beg to subjoin these notes for your kind information.

I. Chickballapur Taluk.

No. i Borehole. This well, which belongs to the Municipality, was bored some 5 years ago. This is the only well which meets the requirements of the whole town consisting of about 10,000 population. The sub-artesian current which was tapped in this well has never failed and the supply has been continuous all through. The bore is lined with 4" tubes.

No. ii Borehole.

The bore in the well is choked up. Being of saline taste, the well water is not used by the people.

Nos. iv and viii Boreholes.

These boreholes were sunk in the valley below Kandavara Tank, to test the thickness of sandy bed for the sinking of wells in connection with the water supply scheme of Chickballapur Municipality and no wells have been constructed in these sites. A definite scheme for sinking a large well has been submitted to Government, but nothing has been decided about it up to the present.

Three other wells have been constructed in spots where trial borings have proved successful and these wells, which

yield

yield a very good supply, are used for irrigation purposes. They have not failed in supply during the summer season.

II. Sidlaghatta Taluk.

Three trial wells, which were sunk in the sites tested by the boreholes in Sidlaghatta Taluk, have been improved much in construction as the discharge was found to be copious. These wells are utilised for irrigation and have not run dry in the hot season.

Out of two wells which were bored, one well has been deepened and gives a good supply for irrigating gardens. The owner now proposes to deepen the other well in the next summer season.

III. Goribidnur Taluk.

Out of 6 wells which were bored, two have been improved. The bores in the remaining 4 wells have become choked up and the owners told me that they will take up the well work in the next summer.

In spite of the bores being choked up, owing to the absence of lining tubes, still the owners have become aware of the existence of the underground resources within a reasonable depth, by means of well boring operations, which have guided them in regard to the sinking of wells and the supply of water they would obtain.

The Talapargies in Hudugur Doddakere, which were explored last year, are being tested this year too. The experiment is in progress and the result will be submitted on completion of the same.

IV. Malur and Kolar Taluks.

No wells have been sunk by the Municipalities in the spots

G. R. S. 26]

1 34

File No. 133-12

Serial No. 17

15/5

Diary No. of letter replied to 6276

No. 11569

LB 133-12

8/18-5-14

General and Revenue Secretariat

(L.B.)

, *the* *191*

To

The Deputy Comr., Kolar

Date of issue 16.5.14

Signed by Jura V. Ramanathan

Sir,

I am directed to request you to be so good as to forward at a very early date ~~on or before~~ a report on the practical results of the well-boring operations conducted in your District by the Well-Boring ~~Expert~~ Operator and his Staff since their entertainment in January 1910 together with your opinion as to the desirability or otherwise of continuing this over.

SUBJECT.

35

temporary Establishment, ~~for both~~ any longer.

~~having the status of permanent~~

~~or for a definite period~~.

Thanks,

Feb 16/5

Sir Secretary

List of enclosures

Copied by 16/5

Examined by 16/5

GPB—25,000—4-3-13

G. R. S. 26] 15/6

36

File No. 1332-12

Serial No.

Diary No. of letter replied to 6276

No. 12733

LB 133-12

9.6.14

General and Revenue Secretariat

(LB.)

, *the* 191 .

To

The Deputy Comr, Kolar

Sir,

Date of issue 10.6.14

Signed by Mr A. V. Ramanathan

In invoking attention to this Office letter no 11569 of LB. 133-12-1 18.5.14 I am directed to request you to be so good as to expedite the submission of the report there called for & the practical results of the boring operations conducted in your District by the Well-boring staff since their Entertainment. to deal with your opinion in the matter of the

over.

SUBJECT.

Rec 15/6

87

further retention ~~of the post~~ of the temporary
Well boring Establishment. As their term of employment
shows. I expect on the 30th instant, a very
early reply is requested

List of enclosures,

Copied by

Examined by

15/6/14

GPB—25,000—4-3-13

Rec'd. at A.P. [illegible]

1U 21/6

WP 2

1913 – 14

From

The Deputy Commissioner
Kolar District

To

The Secretary
to Government
General and Revenue Depts.

Dated 20th Bangalore

Despatched 20th June 1914

Received

General No. 1980.

No.

Enclosure No.

Stating the Circumstances
otherwise of Temporary
Establishment of Well
Boring operations is a matter
for the Government to decide

38
D 7466
L.B 133-12-18.

Deputy Commissioner's office,
Kolar District,
Dated Kolar, the 20th June 1914.

From

B. Ramaswamaiya, Esquire., B.A., B.L.,
Offg. Deputy Commissioner, Kolar District.

To

D.M. Narasinga Rao, Esquire., B.A., B.L.,
Offg. Secretary to the Government of Mysore,
General and Revenue Departments,
Bangalore.

Sir

Adverting to your letter No.11569-L.B.133-12-17 dated the 18th May 1914, calling for a report on the practical results of the well-boring operations conducted in this District, I have the honor to invite reference to this office letter No.~~1265~~ 1285 dated the 8th June 1912, with which a consolidated report of the well-boring Operator on the experiments carried out by him in this District, has been submitted.

2. Subsequently, the services of the well-boring Operator were placed at the disposal of the Secretary, Geological Department and the fact has also been reported in this office No.318 dated the 7th October 1913. I may also invite reference to Government Proceedings No. C.176-97/~~MI~~ Lab.224-11 dated the 28th October 1912, according to which, the well-boring Operator was placed under the orders of the State Geologist. Thus the temporary establishment has ceased to exist in this District from September 1912.

3. In the absence of the consolidated report referred to in para 1, which was sent up in original, I regret I am unable

P.T.O.

to gather exactly the nature of the experiments conducted by the Operator and the advantages gained therefrom. I may state however generally that the results have not proved very successful, and a continuance of the work on the lines hitherto adopted does not appear to be fraught with much advantage, though the adoption of improved implements such as the Keystone driller &c may show satisfactory results. In these circumstances, the continuance or otherwise of the temporary establishment is a matter for the Government to decide.

I have the honor to be,

Sir,

Your most obedient servant

Offg. Deputy Commissioner

Kolar District.

Abolition of the temporary well-boring staff.

G.R.S. 28]

3 6th.

30/6

40

ab

B

File No. 193-12

Serial No. 19

Diary No. of letter replied to 7466

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT.
(L.B.)

, the 191 .

READ—

---f.v. no. 6040-61 / L.B. 133-12-13 & 12.12.13

Sanctioning the further retention of the well-boring staff employed under the State Geologist till the

Date of issue 30.6.14

Signed by Mr A. V. Ramanathan

well-boring Operator - Rs 80
mistry " 25
Coolies

ORDER THEREON. No.

End of June 1914

-2- Correspondence ending with letter no 2092 & 27.6.14 from the State Geologist submitting a report as to the increased water supplies which have resulted from

over.

SUBJECT.

GPB—50,000—1-12-12

41

the well-boring Operations Cuddapah re staff.

3: Correspondence ending with the
no. 1780 of 20.6.14 from the Deputy
Commissioner, Kolar &c on the
subject.

Order thereon 13300-14 JB133-12 of 30.6.14

post, direct that the ~~Establishment~~
temporary well-boring Establishment referred to
be disbanded with Effect from
1st July 1914 and that the
well-boring Operator lie instructed
to report himself to the Secretary
Public Works Department where
there is need for his services

Hon
3016 Pg 2 July 3016

The State Geologist in Mysore.
" Chief Engineer
" Comptroller
" Rev. Comr
" Presidency &c Bds
" Special Adviser Industries & Commerce
" Secretary, Economic Conference
" Secretary, Edn & Agriculture
" Dy Comrs &c &c.

25 Copies

3 Defts

X 62

G. R. S. 34]

No. 13315 LB 133-12-20

GOVERNMENT OF H. H. THE MAHARAJA OF MYSORE.

General and Revenue Secretariat.

(L.B.)

Office Memorandum.

To The Secretary Public Works Dept.

The 30.6 1914

In Continuation of So. No.

~~Has~~ has the honour to forward for information & necessary action the following ~~&~~ extracts from the Dewan's Order in G.S. file (133-12) Sls. 7- :-

~~Para 103~~. x x "The well-boring Operator will be asked to report himself to the Secretary P.W., where there is need for his service"

~~Para 104~~. "Proposals regarding the terms of his employment in the P.W. D. may be submitted for the approval of Govt. by the Secretary P.W. D"

~~Para 105~~. "The question of experimenting with lower drills, which I understand is pending with the Secretary, E. & A. should be expedited".

By order.

Dhvr 30/6

Asst 30/6

GPB—5,000—30-8-13

3 ffh

43

G. R. S. 34]

No. 13316 LB 133-12-21

GOVERNMENT OF H. H. THE MAHARAJA OF MYSORE.

General and Revenue Secretariat.

(L.S.)

Office Memorandum.

To The Secretary, Depts of Education & Agriculture

The 30.6. 1914

~~I~~ has the honour to forward ~~a~~ Contingent Bill No. for information & necessary action

entrusts ~~I~~ the Devan's order in L.B. Dis 133-12

Sh 7 -

~~Para 103~~ x x "The well boring operator will be asked to report himself to the Secretary P.W.D. where there is need for his service"

~~Para 104~~ "Proposals regarding the terms of the employment in the P.W.D. may be submitted for the approval of Govt. by the Secretary P.W.D."

~~Para 105~~. The question of Experimenting with power drills, which I understand is pending with the Secretary, E. & A. should be expedited".

By order

GPB—5,000—30-8-13

Copy 42/30/6 Ky Bill 30/6 Boy 30/6 PWD 30/6 Boy

44

Mysore Geological Department,

No. 23 Dated Camp Oorgaum, 2nd July 1914.

From

Dr. W. F. Smeeth, M.A., D.Sc.,A.R.S.M.,etc.,
State Geologist and Secretary to the
Government of His Highness the
Maharaja of Mysore,
Geological Department.

To

D. M. Narasinga Rao, Esq., B.A., B.L.,
Offg. Secretary to the Government of
His Highness the Maharaja of Mysore,
General and Revenue Departments.

Sir,

With reference to Government Order No. 13,300 dated the 30th. June 1914 directing that the well boring establishment be disbanded with effect from 1st. July 1914, I have the honour to state that the order reached me to-day at Oorgaum and therefore too late to disband the staff from the 1st. inst.

It is necessary that the Boring Operator should make a complete inventory of the tools and plant which he has had charge of and also complete his notes or reports of work which he has had in hand and submit them to me.

I am requesting him to do this and also to state whether there are any lining pipes in any of the holes bored which it would be worth while to pull up.

I request permission therefore to retain the services of the Boring Operator until the tools, plant etc., can be properly checked, and I shall be glad to receive instructions as to whom they are to be handed over.

I am instructing my office to dispense with the services of the rest of the establishment as soon as possible.

I have the honour to be,

Sir,

Your most obedient servant,

State Geologist & Secretary
to Government, Geological
Department.

Immediate

V
8/7/14

45

GPB—1,000—13-2-14

M.G.D. 13]

MYSORE GEOLOGICAL DEPARTMENT.

D334

DATED BANGALORE, ... 8th July ..... 1914.

No. 50.

4B 133-12/823

FROM

DR. W. F. SMEETH, M.A., D.SC., A.R.S.M., etc.,
State Geologist in Mysore.

To

D.M. Narasinga Rao, Esquire, B.A.,B.L.,
Offg. Secretary to the Government of His Highness
the Maharaja of Mysore, Gen. & Rev.Depts.

SIR,

In continuation of my letter No.23, dated 2nd July 1914, regarding the disbanding of the well-boring establishment, I have the honour to inform you that the well-boring establishment has been disbanded ~~this day~~. The Boring Operator has been relieved this afternoon and directed to report himself at once to the Secretary to Government, Public Works Department, and the services of the Mestri and the cooly attached to the establishment have been disbanded with effect from today forenoon.

2. I have now to request the favour of immediate instructions as to the disposal of the Boring tools & plant, as it is necessary that the Boring Operator should hand over charge of them personally before he leaves Bangalore in case he should be posted to the mofussil by the Public Works Department.

3. I have also to request the favour of early sanction to the continuance of the establishment up to the 7th instant inclusive under the circumstances explained in my last letter

4b

on this subject.

4. In transferring Mr.Rangaswami Iyengar to the Public Works Department I have much pleasure in stating that he has worked well while with me and done the best he could with the tools at his disposal.

5. If the results of the work are not as satisfactory as could be wished it must be attributed to the fact that the plant available is not suitable for deep bore holes and that none of the schemes which I have put forward as the result of the boring experiments have as yet been taken up by Government.

I have the honour to be

Sir,

Your most obedient servant,

State Geologist in Mysore

C.N.

Disbanding of the Well-boring Estt employed under the State Forest

G.R.S. 28]

2947

No.

Immediate

89

Diary No. of letter replied to 332

File No. 133-12

Serial No. 24.

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT.
(L.B.)

READ—

, the 191 . f.o. no. 13300-14 & 30-6-14
L.B. 133-12-14

directing that the temporary well-boring Establishment employed under the State Forest be disbanded

Date of issue 17.7.14

Signed by M.A. V. Ramanathan

ORDER THEREON.—No.

with effect from 1-7-1914.

Correspondence ending with letter no. 50 & 8.7.14 from the State Forest in Mysore reporting (1) that the well-boring Operator was

Papers to be returned

over.

SUBJECT.

17/7.

retained till the afternoon of the
8th instant - as tools and plant of
the Establishment had to be checked
before his relief and was directed
to report himself at once to the Secretary
P.W.D and (2) that the services of
the mestor and Cook attached
to the Establishment were dispensed
with from the forenoon of the
same date and ~~directing~~ instructing
as to whom the tools and plan
of the Establishment are to be
handed over.

Order thereon: 716-9 LBS 133-12 7/7/16
Recorded & Communicated to
the Comptroller.

2. The State Geologist is requested
to arrange to handover the tools and
plant in question to the Chief
Engineer pending final orders
Comptroller for the present
in the matter

Asst Director Secy
8/7 10/7/16

By
The State Geologist
" Comptroller
" ~~Deputy Comptroller~~
" Secy. P.W.D. for information

GPB.—20,000—2-10-11

Overseas to whether the services of the staff
are to be dispensed with from 31/12/13

Sl 15 To the State Geologist no 6375 dt 22/12/13.
Requests him to submit a report before the
30th April 1914 on the practical results
of the well boring operations conducted by the
staff referred to in para 6 & 7 of this no 895
dt 21/10/13.

Sl 16. From the State Geologist. no 2692 dt
27/4/14 Submits the report called for in
the above & states that the results arrived
at are not sufficient to warrant any
definite conclusions on the subject.

Sl 17. To the Deputy Com. Kolar no 115/69 dt
18/5/14. Calls for a report on the practical
results of the boring operations conducted by
the well boring operations and his staff in his
District since their entertainment (in Jan 1910
together with his opinion in the matter of the
further retention of the staff

To the Deputy Com. Kolar no 127 33 dt
16/6/14. Requests him to expedite the
Submission of the report called for in Sl 17
for reasons stated

To do telegram dt 18/6/14. Requests him to expedite
the report called for in Sl 17

From do telegram dt 20/6/14. Replies that the
report in question has been despatched.

Sl 18. From do. no 1780 dt 20/5/14 States that

under the circumstances explained the
Continuance or otherwise of the well borne
establishment is a matter for the Govt to
decide
Sl 19 To the state geologist, chief Engineer etc
no 13300-14 dt 30/6/14. Directs that the
temporary well boring establishment
be disbanded with effect from 1/7/14
& that the well boring operator be instructed
to report himself to the Secy P.W.D. for duty
Sl 20. To the Secy P.W.D. no 13315 dt 30/6/14
forwards in continuation necessary extracts
from the Dewan's order supra for information
and necessary action
Sl 21 To the Secy Dept of Agriculture
no 13316 dt 30/6/14 do
Sl 22 From the state geologist. no 23 dt 2/7/14.
Requests permission to return the services
of the boring operator alone until the
tools, plant, etc can be properly checked
& requests instructions as to whom they
are to be handed over
Sl 23 From do. no 334 dt 8/7/14. Reports that the
Boring Operator was relieved on the afternoon
of the 8th inst & directed to report himself
at once to the Secy P.W.D. and that the services
of the peishkar and Coolie attached to the
Establishment have been disbanded with effect

from me forenoon of the same date &
requests immediate instructions as to the
disposal of the boring tools & plant
Sl 24. To the State Geologist Comptroller's
No 716-9 of 17/7/14. Records and Communicate
the correspondence on the subject to the
Comptroller and requests the State Geologist
to hand over the tools and plant to the
Chief Engineer pending final orders.

27/10/14